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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,373	08/31/2006	Norikazu Otake	BY0039P	8059
210 MERCK AND	7590 11/05/200 CO., INC	EXAMINER		
P O BOX 2000			DAVIS, ZINNA NORTHINGTON	
RAHWAY, NJ 07065-0907			ART UNIT	PAPER NUMBER
			1625	
			MAIL DATE	DELIVERY MODE
			11/05/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/591,373	OTAKE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Zinna Northington Davis	1625			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 27 Au  2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This  3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 26-51 is/are pending in the application 4a) Of the above claim(s) 51 is/are withdrawn fr 5) Claim(s) is/are allowed. 6) Claim(s) 26-28,31-37,40,42,43 and 50 is/are re 7) Claim(s) 29, 30, 38, 39, 41, and 44-49 is/are o 8) Claim(s) are subject to restriction and/or Application Papers  9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the oreginal drawing sheet(s) including the correction	rom consideration.  ejected. bjected to. r election requirement.  r. epted or b) objected to by the Edrawing(s) be held in abeyance.	e 37 CFR 1.85(a).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/10/06.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	nte			

Application/Control Number: 10/591,373 Page 2

Art Unit: 1625

## **DETAILED ACTION**

1. Claims 26-51 are pending. Claims 1-25 have been cancelled.

2. In the response filed August 27, 2009, Applicants have elected Group I, claims 26-50, without traverse. Applicants also identify the species wherein Ar is a heteroaromatic ring;  $Y_1$  is a bond;  $Y_2$  is a lower alkylene;  $Y_3$  is oxygen;  $X_1$  is methine;  $X_2$  is methine;  $X_3$  is methine;  $X_4$  is methine;  $X_5$  is methine;  $X_6$  is methine;  $X_7$  is methine;  $X_1$  is bond;  $X_2$  is methine;  $X_3$  is methine;  $X_4$  is determined aliphatic nitrogen-containing heterocyclic group;  $X_2$  is lower alkyl.

- 3. Based upon the response filed August 27, 2009, the election of species requirement is withdrawn; however, the restriction requirement is maintained.
- 4. Claims 51 is withdrawn from consideration. This claim has not been canceled.
- 5. Rejoinder of the method claims will be addressed upon allowance of claimed subject matter.
- 6. Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).
- 7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

Application/Control Number: 10/591,373 Page 3

Art Unit: 1625

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 26-28, 31-37, 40, 42, 43, and 50 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Pharmacia Corporation (Reference B3, cited by Applicants).

The instantly claimed compound is disclosed. At page 466, line 25, see Example 324. The compound is depicted below:

$$\begin{array}{c} \text{Me} \quad \text{F} \\ \text{CH}_2 - \text{O} \\ \text{Br} \end{array}$$

The claims are fully met when Ar is an optionally substituted aromatic ring;  $Y_1$  is a bond;  $Y_2$  is a lower alkylene;  $Y_3$  is oxygen;  $X_1$  is an optionally substituted methine;  $X_2$  is methine;  $X_3$  is an optionally substituted methine;  $X_4$  is an optionally substituted methine;  $X_5$  is methine;  $X_6$  is an optionally substituted methine;  $X_7$  is methine;  $X_1$  is bond;  $X_2$  is bond;  $X_3$  is optionally substituted methylene; and  $X_4$  are hydrogen.

- 9. The Information Disclosure Statement filed October 10, 2006 has been considered.
- 10. Claims 29, 30, 38, 39, 41, and 44-49 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/591,373 Page 4

Art Unit: 1625

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Zinna Northington Davis whose telephone number is

571-272-0682.

12. The fax phone number for the organization where this application or proceeding

is assigned is (571) 273-8300 for regular communications.

13. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/Zinna Northington Davis/
Zinna Northington Davis

Primary Examiner
Art Unit 1625

Znd 10.26.2009